

(19)
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2004 09 04

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10-2003-0012630

(22)

2003 02 28

(71)

.

20

(72)

LG.PhilipsLCD

1

1413

109 810

(74)

:

(54)

가

가

6

1

2 1 'A'

3 .
4 1 .
5 4 'B' .
6 2 .
7 6 'C' .
< >
2,102,202 : 10,110,210 :
14,114,214 : 16,116,216 :
17 : 20,120,220 :
24,124,224 : 26,126,226 :
30,130,230 : 260 :
32,132,232 : 34,134,234 :
36,136,236 : 40,140,240:
42,142,242 : 150,250 :

(Back Light Unit)

가
가

1 .
1 , (2) , (30, 32, 34, 36) (24)
(2) 가 , (2) (Support Main)(14) ,
(14) (Top Case)(10) .
(2) (42, 40) ,
(Thin Film Transistor) .

(20) , (20) (16) , (20)
(24) , (24) (26) , (24)
(30), (32), (34)

(36) .

(20) 가 (20) (24)
(24) (16) (20) (24)
(24) (24) 가 (26) (24)
(24) (24)
(20) (24)
(24) (24) (26)
(24) (30) (2)

(30, 32, 34, 36) (24)
(24) (2) (30, 34) ,
(32, 36) (24)
(32, 34)

) (32, 34) (36)

(30, 32, 34, 36) (16) 0.5 0.8mm 가 .

(14) (Mold) (14)
(26), (10), (30, 32, 34, 36)
가 (30, 32, 34, 36) (2)

(14) (16) (26) , (24) (20)
(16) (16) (30, 32, 34, 36)

(14) (30, 32, 34, 36) , (30, 32, 34, 36)
(2) 가 (14)
(10)

6) 'I' (0.5 0.8mm) (Overlap) (30, 32, 34, 36) 2 (1)
0, 32, 34, 36) (14) (14a) 가 (3)
(30, 32, 34, 36) (14a) 가 (30, 32, 34, 36)
(14) (14a)

(30, 32, 34, 36) (Overlap) (0.5 0.8mm) 'I'가
(30, 32, 34, 36) 3 (30, 32, 34, 36)
(30)가 (16) (24) (16)
(24) (30, 32, 34, 36) (17) (17)

가

가
가

0.5mm

가

1.0 1.3mm

가 가

가

가

0.5mm

4 7

4 1

4 1

(124)
(102) 가(102)
(114)(130, 132, 134, 136)
(Support Main)(114) ,
(Top Case)(110)

(102)

(142, 140)

(Thin Film Transistor)

20) (124) (136) (120) , (120) (124) , (124) (132), (116) , (126) , (134)

(120)

가

(120)

(124)

(124)

(116)

(120)

(124)

(124)

가

(126)

(124)

(124)

(120)

(124)

(126)

(124)

(130)

(102)

(130, 132, 134, 136)

(124)

(124)

(130, 134) ,

(102)

(132, 136)

(124)

(130)

(132, 134)

(132, 134)

(136)

(130, 132, 134, 136) (116) (116)
 (130, 132, 134, 136) (130) 5 (132, 134, 136)
 136) 가 (130) (114) (114a)
 0.5mm가 (116) 1.0 1.3mm

(114) (Mold) (114)
 (126), (110), (130, 132, 134, 136)
 가 (130, 132, 134, 136) (102)

(120) (116) (114) (126) , (124)
 0, 132, 134, 136) (116) (116) (13

(114) (130, 132, 134, 136) (128)가 (130, 1
 32, 134, 136) (102) , (1
 02) 가 (114) (110)

1 5 (116)
 (130, 132, 134, 136) (130) (132, 134, 136)
 0.5mm (130) (150) (1
 30, 132, 134, 136) 'J' (Overlap) (1.0 1.3mm) 가
 (116) '1.0 1.3mm'가 '0.5 0.8mm'

1 X ,
 가 가

6 2
 6 , 2 (114) 1
 가

(230, 232, 234, 236) (224)
 , (224) (230, 234) ,
 (202) (232, 236)
 (224) (230) (232, 234)
 (232, 234) (236)

(230, 232, 234, 236) (216) (216)
 (230, 232, 234, 236) (230) 7 (232, 234,
 236) 가 (230) (214) (214a)
 0.5mm가 (216) 1.0 1.3mm

(228) (230, 232, 234, 236) 가
 (230, 232, 234, 236)

(214) (Mold) (216)
 (250) (250 (216) (230, 232, 234, 2
 36) (230)가 (230)
 가 (114) (214) (226),
 (210), 가 (230, 232, 234, 236) (228)
 가 (230, 232, 234, 236) (202)

(202) (242, 240)
 (Thin Film Transistor)

(220) (216) (214) (226) (224)
 0, 232, 234, 236) (216) (23

(230, 232, 234, 236) (228)
 (230, 232, 234, 236)

(214) (230, 232, 234, 236) (228)가 (230, 2
 32, 234, 236) (202) (2
 02) 가 (214) (210)

2 7 (216)
 (230, 232, 234, 236) (230) (232, 234, 236)
 0.5mm (230) (250) (2
 30, 232, 234, 236) 'K' (Overlap) (1.0 1.3mm) 가 (16)
 (226) '1.0 1.3mm'가 '0.5 0
 .8mm'

(214) 0.5 1.0mm (260) (230)

2 가 X ,
 가

가

가

(57)

1.

가

가

2.

1 ,

가
 가 0.5mm

- 2

3.

,
가

.
- 3

4.

,

1.0 1.3mm

.
5.

,

;

,
가 가

.

가

.
- 5

6.

,

가

.
- 6

7.

,
가

0.5mm

.
- 7

8.

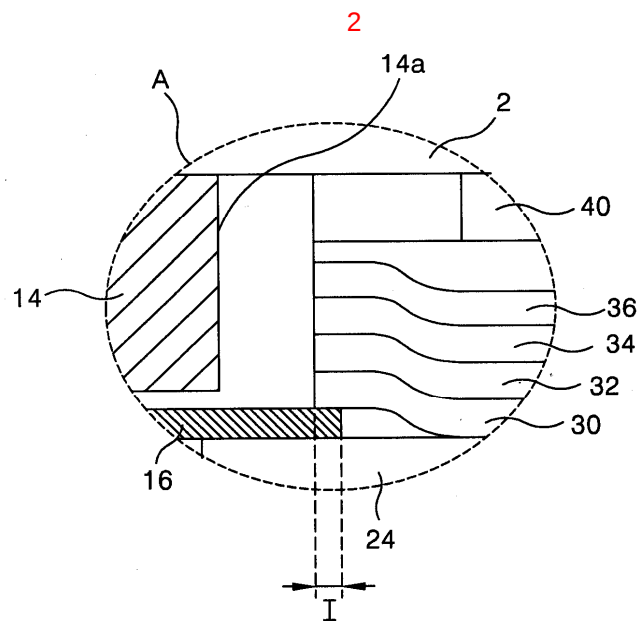
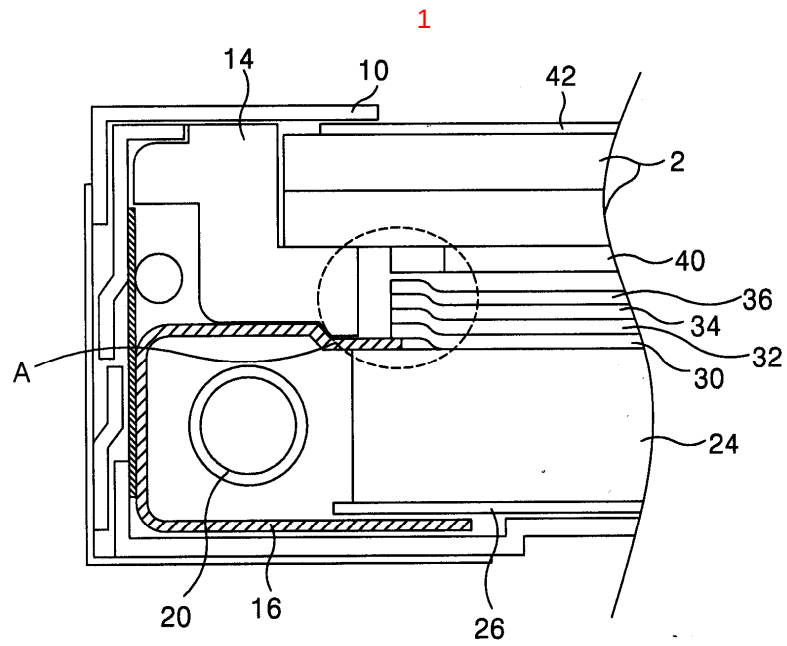
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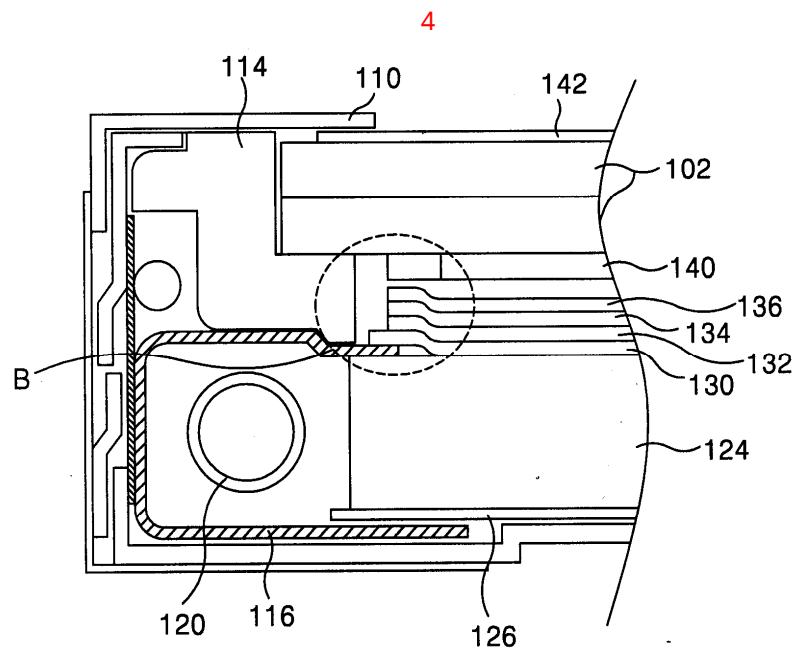
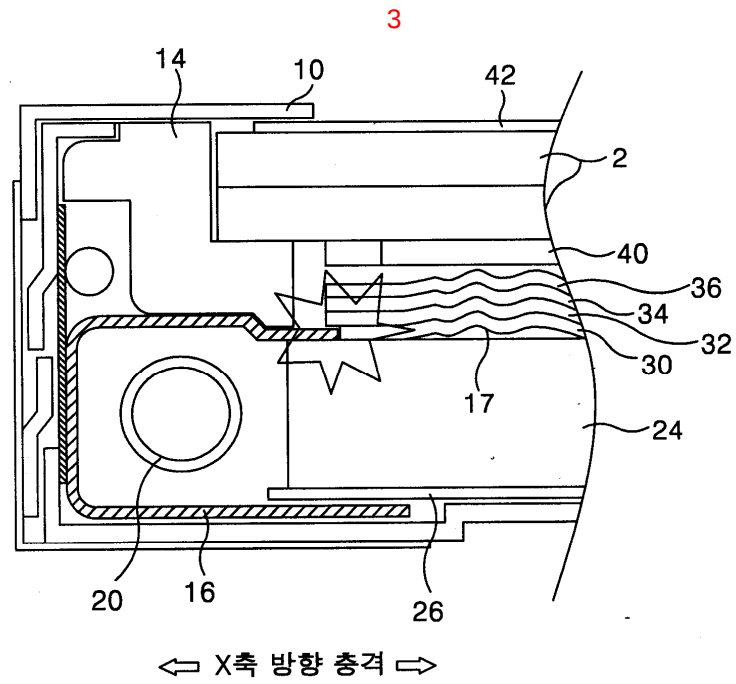
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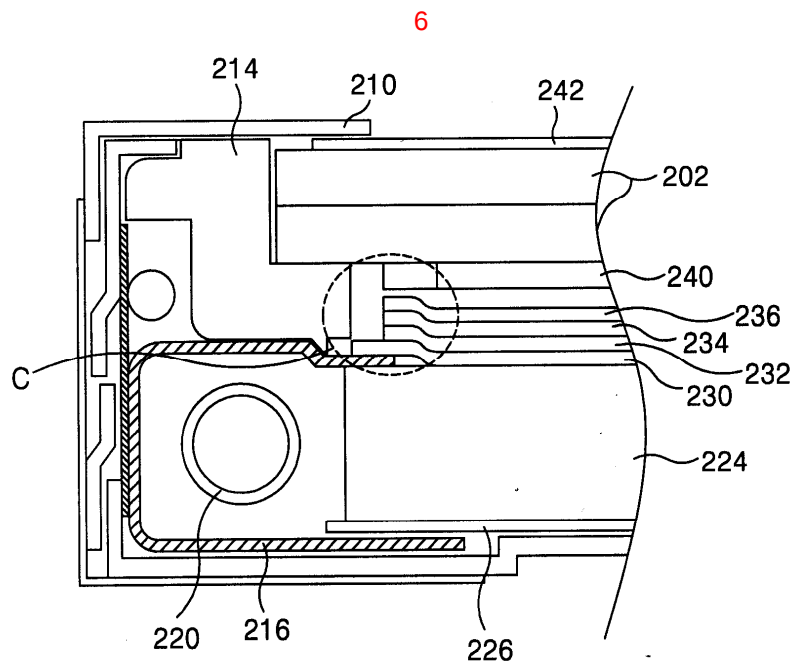
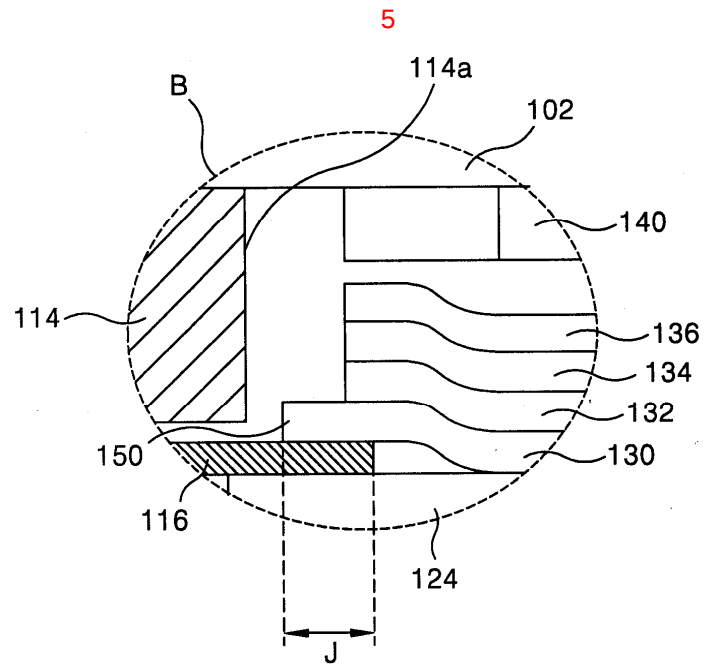
9.

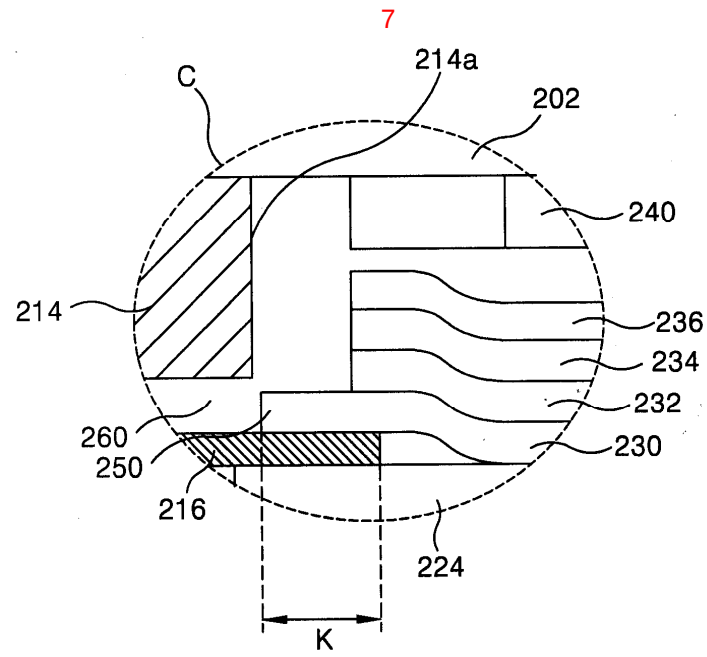
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专利名称(译)	背光单元和使用该背光单元的液晶显示模块		
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[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	PARK BYUNGIN 박병인 PARK CHUL 박철		
发明人	박병인 박철		
IPC分类号	G02F1/13357		
其他公开文献	KR100927019B1		
外部链接	Espacenet		

摘要(译)

本发明涉及一种使用该液晶显示模块的液晶显示模块，该背光单元能够防止光源防止光学片的褶皱。根据本发明实施例的液晶显示模块包括液晶面板，灯和多个光学片，其中一端安装在灯壳上，导光板覆盖导光板的一部分同时覆盖从灯中收集光的导光板，并且灯和部件的一部分重叠在支撑背光单元的支撑主体的灯壳上，用于在液晶面板中照射液晶面板的光和背光单元。并且灯壳的重叠长度是与光导相邻的光学片与其他光学片相比，光学片中的光板更长。通过这种配置，尽管其中根据本发明优选实施例的液晶显示模块位于灯壳体中的最下部中的光学片的长度被延伸为预定长度和光学片。由于来自外部的冲击而飞行，足够的overlap部分得到保护。而且，为了足以确保光学片的流动长度，在支撑主体上形成脱离槽，并防止位于最下部的光学片落在灯壳下面。由此，可以抑制褶皱，并且可以防止导光板和光学片间隔中的光源在光学片中由于皱纹。

